

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/0045781  
Source: 1FW  
Date Processed by STIC: 12/3/4

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 12/03/2004

PATENT APPLICATION: US/10/645,784

TIME: 12:08:58

Input Set : N:\Crif3\RULE60\10645784.raw

Output Set: N:\CRF4\12032004\J645784.raw

```

1 <110> APPLICANT: FEIGE, ULRICH
2   LIU, CHUAN-FA
3   CHEETHAM, JANET C.
4   BOONE, THOMAS CHARLES
5   GUDAS, JEAN MARIE
6 <120> TITLE OF INVENTION: MODIFIED PEPTIDES AS THERAPEUTIC AGENTS
7 <130> FILE REFERENCE: A-527A
8 <140> CURRENT APPLICATION NUMBER: US/10/645,784
9 <141> CURRENT FILING DATE: 2003-08-18
10 <150> PRIOR APPLICATION NUMBER: US/09/563,286
11 <151> PRIOR FILING DATE: 2000-05-03
12 <150> PRIOR APPLICATION NUMBER: 09/428,082
13 <151> PRIOR FILING DATE: 1999-10-22
14 <150> PRIOR APPLICATION NUMBER: 60/105,371
15 <151> PRIOR FILING DATE: 1998-10-23
16 <160> NUMBER OF SEQ ID NOS: 1157
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 684
21 <212> TYPE: DNA
22 <213> ORGANISM: HUMAN
23 <220> FEATURE:
24 <221> NAME/KEY: CDS
25 <222> LOCATION: (1)..(684)
26 <223> OTHER INFORMATION:
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28   atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc ctg      48
29   Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
30   1           5           10           15
31   ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc      96
32   Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
33   20           25           30
34   atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc      144
35   Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
36   35           40           45
37   cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag      192
38   His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
39   50           55           60
40   gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg      240
41   Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
42   65           70           75           80
43   tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat      288
44   Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn

```

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Output Set: N:\CRF4\12032004\J645784.raw

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45          85          90          95
46 ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc 336
47 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
48          100          105          110
49 atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag 384
50 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
51          115          120          125
52 gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc 432
53 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
54          130          135          140
55 agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg 480
56 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
57          145          150          155          160
58 gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct 528
59 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
60          165          170          175
61 ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc 576
62 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
63          180          185          190
64 gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg 624
65 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
66          195          200          205
67 atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg 672
68 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
69          210          215          220
70 tct ccg ggt aaa 684
71 Ser Pro Gly Lys
72 225
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 228
76 <212> TYPE: PRT
77 <213> ORGANISM: HUMAN
78 <400> SEQUENCE: 2
79 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
80 1 5 10 15
81 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
82 20 25 30
83 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
84 35 40 45
85 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
86 50 55 60
87 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
88 65 70 75 80
89 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
90 85 90 95
91 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
92 100 105 110
93 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
94 115 120 125

```

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```

95      Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
96          130                      135                      140
97      Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
98          145                      150                      155                      160
99      Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
100          165                      170                      175
101      Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
102          180                      185                      190
103      Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
104          195                      200                      205
105      Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
106          210                      215                      220
107      Ser Pro Gly Lys
108          225

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110 &lt;210&gt; SEQ ID NO: 3

111 &lt;211&gt; LENGTH: 36

112 &lt;212&gt; TYPE: PRT

113 &lt;213&gt; ORGANISM: Artificial Sequence

114 &lt;220&gt; FEATURE:

115 &lt;223&gt; OTHER INFORMATION: PEPTIDE SEQUENCE MODIFIED FOR PEGYLATION

116 &lt;220&gt; FEATURE:

117 &lt;221&gt; NAME/KEY: misc\_feature

118 &lt;222&gt; LOCATION: (18)..(18)

119 <223> OTHER INFORMATION: Methoxy-polyethylene glycol (5000 Dalton)-sulfoacetyl group  
 attac

120 hed to the sidechain.

121 &lt;400&gt; SEQUENCE: 3

122 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly

123 1 5 10 15

124 Gly Lys Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu

125 20 25 30

126 Ala Ala Arg Ala

127 35

129 &lt;210&gt; SEQ ID NO: 4

130 &lt;211&gt; LENGTH: 36

131 &lt;212&gt; TYPE: PRT

132 &lt;213&gt; ORGANISM: Artificial Sequence

133 &lt;220&gt; FEATURE:

134 &lt;223&gt; OTHER INFORMATION: PEPTIDE SEQUENCE MODIFIED FOR PEGYLATION

135 &lt;220&gt; FEATURE:

136 &lt;221&gt; NAME/KEY: misc\_feature

137 &lt;222&gt; LOCATION: (18)..(18)

138 <223> OTHER INFORMATION: Methoxy-polyethylene glycol (5000 Dalton)-succinimidyl group  
 att

139 ched to the sidechain.

140 &lt;400&gt; SEQUENCE: 4

141 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly

142 1 5 10 15

143 Gly Cys Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu

144 20 25 30

145 Ala Ala Arg Ala

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TIME: 12:08:58

Input Set : N:\Crif3\RULE60\10645784.raw

Output Set: N:\CRF4\12032004\J645784.raw

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146          35
148 <210> SEQ ID NO: 5
149 <211> LENGTH: 794
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Fc-TMP
154 <220> FEATURE:
155 <221> NAME/KEY: CDS
156 <222> LOCATION: (39)..(779)
157 <223> OTHER INFORMATION:
W--> 158 <400> 5
159      tctagatttg ttttaactaa ttaaaggagg aataacat atg gac aaa act cac aca      56
160                                     Met Asp Lys Thr His Thr
161                                     1          5
162      tgt cca cct tgt cca gct ccg gaa ctc ctg ggg gga ccg tca gtc ttc      104
163      Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
164                                     10          15          20
165      ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct      152
166      Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
167                                     25          30          35
168      gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc      200
169      Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
170      40          45          50
171      aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca      248
172      Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
173      55          60          65          70
174      aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc agc gtc      296
175      Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
176      75          80          85
177      ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc      344
178      Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
179      90          95          100
180      aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc      392
181      Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
182      105          110          115
183      aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca      440
184      Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
185      120          125          130
186      tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc      488
187      Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
188      135          140          145          150
189      aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg      536
190      Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
191      155          160          165
192      cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac      584
193      Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
194      170          175          180
195      ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg      632

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Output Set: N:\CRF4\12032004\J645784.raw

```

196      Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
197              185                      190                      195
198      cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac      680
199      Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
200              200                      205                      210
201      aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa ggt gga      728
202      Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly
203              215                      220                      225                      230
204      ggt ggt ggt atc gaa ggt ccg act ctg cgt cag tgg ctg gct gct cgt      776
205      Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg
206              235                      240                      245
207      gct taatctcgag gatcc      794
208      Ala
210 <210> SEQ ID NO: 6
211 <211> LENGTH: 247
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Fc-TMP
216 <400> SEQUENCE: 6
217      Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
218              1              5              10              15
219      Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
220              20              25              30
221      Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
222              35              40              45
223      His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
224              50              55              60
225      Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
226              65              70              75              80
227      Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
228              85              90              95
229      Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
230              100             105             110
231      Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
232              115             120             125
233      Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
234              130             135             140
235      Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
236              145             150             155             160
237      Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
238              165             170             175
239      Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
240              180             185             190
241      Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
242              195             200             205
243      Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
244              210             215             220
245      Ser Pro Gly Lys Gly Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg

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**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/10/645,784

DATE: 12/03/2004  
TIME: 12:08:59

Input Set : N:\Crf3\RULE60\10645784.raw  
Output Set: N:\CRF4\12032004\J645784.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:33; Xaa Pos. 6,7,8  
Seq#:45; Xaa Pos. 8,9,10  
Seq#:56; Xaa Pos. 8,9  
Seq#:57; Xaa Pos. 8,9,10  
Seq#:58; Xaa Pos. 8,9,10,11  
Seq#:59; Xaa Pos. 8,9,10,11,12  
Seq#:60; Xaa Pos. 8,9,10,11,12,13  
Seq#:71; Xaa Pos. 2,12  
Seq#:72; Xaa Pos. 2,3,13  
Seq#:73; Xaa Pos. 2,12,13  
Seq#:74; Xaa Pos. 2,3,13,14  
Seq#:83; Xaa Pos. 2,4,5,8,11,13  
Seq#:84; Xaa Pos. 2,4,5,8,11,13,16,18,19,22,25,27  
Seq#:85; Xaa Pos. 2,4,5,8,11,13  
Seq#:86; Xaa Pos. 2,4,5,8,11,13  
Seq#:100; Xaa Pos. 4  
Seq#:101; Xaa Pos. 1,5  
Seq#:102; Xaa Pos. 1,4  
Seq#:104; Xaa Pos. 4  
Seq#:124; Xaa Pos. 1,2,3,6,9,10  
Seq#:142; Xaa Pos. 2,4,8,9  
Seq#:212; Xaa Pos. 1,2,3,5,7,8,9  
Seq#:221; Xaa Pos. 10  
Seq#:222; Xaa Pos. 10  
Seq#:223; Xaa Pos. 11  
Seq#:224; Xaa Pos. 10  
Seq#:225; Xaa Pos. 10  
Seq#:226; Xaa Pos. 10  
Seq#:227; Xaa Pos. 10  
Seq#:228; Xaa Pos. 10  
Seq#:229; Xaa Pos. 6,10  
Seq#:230; Xaa Pos. 6,10  
Seq#:234; Xaa Pos. 5,10  
Seq#:235; Xaa Pos. 5,10  
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Seq#:237; Xaa Pos. 5,10  
Seq#:240; Xaa Pos. 10  
Seq#:241; Xaa Pos. 10  
Seq#:242; Xaa Pos. 8,10  
Seq#:243; Xaa Pos. 10  
Seq#:244; Xaa Pos. 10  
Seq#:245; Xaa Pos. 10  
Seq#:246; Xaa Pos. 10  
Seq#:247; Xaa Pos. 10

**RAW SEQUENCE LISTING ERROR SUMMARY**  
**PATENT APPLICATION: US/10/645,784**

DATE: 12/03/2004  
TIME: 12:08:59

Input Set : N:\Crf3\RULE60\10645784.raw  
Output Set: N:\CRF4\12032004\J645784.raw

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Seq#:253; Xaa Pos. 10  
Seq#:254; Xaa Pos. 5,10  
Seq#:255; Xaa Pos. 6,10  
Seq#:256; Xaa Pos. 5,10  
Seq#:258; Xaa Pos. 1,10

**Invalid Line Length:**

**The rules require that a line not exceed 72 characters in length. This includes spaces.**

Seq#:3; Line(s) 119  
Seq#:4; Line(s) 138  
Seq#:26; Line(s) 1083,1087  
Seq#:27; Line(s) 1101  
Seq#:28; Line(s) 1115,1120  
Seq#:29; Line(s) 1137  
Seq#:30; Line(s) 1155  
Seq#:31; Line(s) 1170  
Seq#:32; Line(s) 1189,1193  
Seq#:85; Line(s) 1789  
Seq#:93; Line(s) 1895  
Seq#:96; Line(s) 1937  
Seq#:97; Line(s) 1953  
Seq#:98; Line(s) 1971  
Seq#:99; Line(s) 1986  
Seq#:100; Line(s) 2001  
Seq#:103; Line(s) 2048  
Seq#:104; Line(s) 2062  
Seq#:124; Line(s) 2270,2282,2291  
Seq#:275; Line(s) 4171  
Seq#:320; Line(s) 4721  
Seq#:377; Line(s) 5471  
Seq#:378; Line(s) 5480  
Seq#:379; Line(s) 5489  
Seq#:380; Line(s) 5498  
Seq#:381; Line(s) 5507  
Seq#:382; Line(s) 5516  
Seq#:383; Line(s) 5525  
Seq#:386; Line(s) 5574  
Seq#:387; Line(s) 5585  
Seq#:388; Line(s) 5594  
Seq#:389; Line(s) 5617  
Seq#:398; Line(s) 5737  
Seq#:419; Line(s) 5973  
Seq#:421; Line(s) 6026  
Seq#:448; Line(s) 6349  
Seq#:461; Line(s) 6516

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Input Set : N:\Crf3\RULE60\10645784.raw  
Output Set: N:\CRF4\12032004\J645784.raw

Seq#:473; Line(s) 6674  
Seq#:592; Line(s) 8022,8026,8031  
Seq#:593; Line(s) 8048  
Seq#:594; Line(s) 8065,8070,8074  
Seq#:909; Line(s) 11479,11483  
Seq#:910; Line(s) 11517,11521  
Seq#:917; Line(s) 11671  
Seq#:1042; Line(s) 13457,13467,13487  
Seq#:1110; Line(s) 14871  
Seq#:1142; Line(s) 15203,15207,15212,15216  
Seq#:1143; Line(s) 15232,15236,15241,15245  
Seq#:1144; Line(s) 15261,15265,15270,15274  
Seq#:1145; Line(s) 15290,15294,15299,15303  
Seq#:1146; Line(s) 15319,15323,15328,15332

## VERIFICATION SUMMARY

DATE: 12/03/2004

PATENT APPLICATION: US/10/645,784

TIME: 12:08:59

Input Set : N:\Crif3\RULE60\10645784.raw

Output Set: N:\CRF4\12032004\J645784.raw

L:27 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:0  
 L:158 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:0  
 L:260 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:0  
 L:368 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:0  
 L:476 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:0  
 L:602 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15,Line#:0  
 L:705 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:17,Line#:0  
 L:808 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:19,Line#:0  
 L:919 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:0  
 L:1210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
 L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0  
 L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
 L:1462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
 L:1476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
 L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0  
 L:1504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0  
 L:1618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0  
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 L:1761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0  
 L:1775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0  
 M:341 Repeated in SeqNo=84  
 L:1795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0  
 L:1809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0  
 L:2004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0  
 L:2020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0  
 L:2036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0  
 L:2068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0  
 L:2294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0  
 L:2480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0  
 L:3255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0  
 L:3360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:0  
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 L:3490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:230 after pos.:0  
 L:3535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0  
 L:3550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235 after pos.:0  
 L:3565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0  
 L:3580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0  
 L:3624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240 after pos.:0  
 L:3646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0

## VERIFICATION SUMMARY

DATE: 12/03/2004

PATENT APPLICATION: US/10/645,784

TIME: 12:08:59

Input Set : N:\Crf3\RULE60\10645784.raw

Output Set: N:\CRF4\12032004\J645784.raw

L:3668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0  
L:3686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0  
L:3704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0  
L:3722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0  
L:3740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:246 after pos.:0  
L:3762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247 after pos.:0  
L:3784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:248 after pos.:0  
L:3806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249 after pos.:0  
L:3867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:0  
L:3891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254 after pos.:0  
L:3909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:0  
L:5347 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:367,Line#:0  
L:5441 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:375,Line#:0  
L:5539 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:384,Line#:0  
L:5688 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:394,Line#:0  
L:5781 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:402,Line#:0  
L:5924 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:416,Line#:0  
L:13663 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1055,Line#:0  
L:13763 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1057,Line#:0  
L:13863 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1059,Line#:0  
L:13963 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1061,Line#:0  
L:14063 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1063,Line#:0  
L:14164 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1065,Line#:0  
L:14265 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1067,Line#:0  
L:14364 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1069,Line#:0  
L:14983 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1120,Line#:0